AUTHOR INDEX

Adkins, Dan F.
Mathematics of Concrete Scaling, with Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288

Aïtcin, Pierre-Claude
see Do, Minh-Tan, MT Feb. 93, p96-111

Akpokodje, Enuvie G.
Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, with Peter P. Hudec, MT Feb. 92, p58-70
disc: Busby Attoh-Okine and W. Kim Roddis, MT Nov. 93, p550-551
disc: Edward S. K. Fekpe, MT Nov. 93, p551-553
clo: MT Nov. 93, p553-554

Alexander, Mark G.
Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, MT Nov. 93, p427-435

Al-Gahtani, A. S.
see Al-Saadoun, S. S., MT Aug. 93, p356-371

Al-Negheimish, Abdulaziz I.
see Wheat, Dan L., MT Nov. 93, p460-477

Al-Saadoun, S. S.
Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, with Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371

Amirkhanian, Serji N.
see Kim, Kwang W., MT Nov. 93, p447-459
see Williams, Bill, MT Nov. 93, p510-530

Attoh-Okine, Busby
disc. (of Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, by Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70) with W. Kim Roddis, MT Nov. 93, p550-551

Balaguru, P. N.
see Maher, M. H., MT May 93, p212-225

Barbero, Ever J.
Local Buckling of FRP Beams and Columns, with Ioannis G. Raftoyiannis, MT Aug. 93, p339-355

Bažant, Zdeněk P.
see Hasegawa, Toshiaki, MT Aug. 93, p372-393
see Hasegawa, Toshiaki, MT Aug. 93, p394-410

Becker, Rachel
Thermal Resistance of Masonry Walls—Analysis and Test Results, MT Aug. 93, p308-320

Biswas, Mrinmay
see Kelsey, R. George, MT May 93, p187-197

Boulanger, Jean
see Hechler, Jean-Jacques, MT Feb. 93, p53-61

Brito, Gertrudys
see Adkins, Dan F., MT May 93, p280-288

Brodland, G. Wayne
Mechanics and Failure of Multilayer, Reinforced Membranes, with Eric F. P. Burnett, MT Aug. 93, p293-307

Burati, James L., Jr.
see Kim, Kwang W., MT Feb. 93, p41-52
see Kim, Kwang W., MT Nov. 93, p447-459

Burnett, Eric F. P.
see Brodland, G. Wayne, MT Aug. 93, p293-307

Chaallal, Omar
see Do, Minh-Tan, MT Feb. 93, p96-111

Chang, Wen F.
see Ghafoori, Nader, MT May 93, p249-264

Chen, J. J.
see Weng, C. C., MT May 93, p265-279

Cheng, Shun
see Tan, Seng C., MT May 93, p198-211

Das, Y. C.
see Vallabhan, C. V. Girija, MT Feb. 92, p71-76

Delgado, A. H.
see Paroli, R. M., MT Feb. 93, p83-95

Deng, Yueying
Predictions of Thermal Characteristics for Mixed Porous Media, with Clifford B. Fedler and James M. Gregory, MT May 92, p185-195
disc: Gebran N. Karam, MT Aug. 93, p420-421
clo: MT Aug. 93, p421-422

Do, Minh-Tan
Fatigue Behavior of High-Performance Concrete, with Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111

Drescher, Andrew
Permanent Deformation in Asphalt Concrete, with Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128

Dutt, O.
see Paroli, R. M., MT Feb. 93, p83-95

Eldin, Neil N.
Rubber-Tire Particles as Concrete Aggregate, with Ahmed B. Senouci, MT Nov. 93, p478-496

Fedler, Clifford B.
see Deng, Yueying, MT May 92, p185-195

Fekpe, Edward S. K.
disc. (of Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, by Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70), MT Nov. 93, p551-553

Fowler, David W.
see Rebeiz, Karim S., MT May 93, p237-248
see Wheat, Dan L., MT Nov. 93, p460-477

Ghafoori, Nader
Investigation of Phosphate Mining Waste for Construction Materials, with Wen F. Chang, MT May 93, p249-264

Gregory, James M.
see Deng, Yueying, MT May 92, p185-195

Hackett, Robert M.
Modeling Stiffness Degradation in Filamentary Composite Materials, with Kerry T. Slattery, MT May 92, p196-211
disc: Gebran N. Karam, MT Nov. 93, p547-549
clo: MT Nov. 93, p549-550

Hammons, Michael I.
see Smith, Donald M., MT Aug. 93, p411-417

Hasegawa, Toshiaki
Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, with Zdeněk P. Bažant, MT Aug. 93, p372-393
Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, with Zdeněk P. Bažant, MT Aug. 93, p394-410

Hechler, Jean-Jacques
Corrosion Rates, Wetness, and Pollutants on Exterior of Building, with Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61

Hover, K. C.
see Natesaiyer, K., MT May 93, p170-186

Hudec, Peter P.
see Akpokodje, Enuvie G., MT Feb. 92, p58-70

Hussain, S. Ehtesham
Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, with Rasheeduzzafar, MT May 93, p155-169

Karam, Gebran N.
disc. (of Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, by S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105), MT Feb. 93, p146-148
disc. (of Modeling Stiffness Degradation in Filamentary Composite Materials, by Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211), MT Nov. 93, p547-549
disc. (of Predictions of Thermal Characteristics for Mixed Porous Media, by Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195), MT Aug. 93, p420-421

Kelsey, R. George
Thermomechanical Properties of Epoxy Mortars, with Mrinmay Biswas, MT May 93, p187-197

Kim, Jong R.
see Drescher, Andrew, MT Feb. 93, p112-128

Kim, Kwang W.
Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, with James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459
Use of GPC Chromatograms to Characterize Aged Asphalt Cements, with James L. Burati, Jr., MT Feb. 93, p41-52

Larralde, J.
Bond and Slip of FRP Rebars in Concrete, with R. Silva-Rodriguez, MT Feb. 93, p30-40

Love, B. J.
disc. (of Properties of PVB Interlayer Used in Laminated Glass, by C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76), MT Nov. 93, p546

Maher, M. H.
Properties of Flowable High-Volume Fly Ash–Cement Composite, with P. N. Balaguru, MT May 93, p212-225

McCarter, W. J.
Influence of Surface Finish on Sorptivity on Concrete, MT Feb. 93, p130-136

Meamarian, Nasser
see Nanni, Antonio, MT Feb. 93, p137-143

Mebarkia, S.
Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, with C. Vipulanandan, MT Feb. 92, p91-105
disc: Gebran N. Karam, MT Feb. 93, p146-148
clo: MT Feb. 93, p148-150

Merkley, Gary P.
see Adkins, Dan F., MT May 93, p280-288

Mohamed, El Hussein H.
Debonding Location in Asphalt Concrete Associated with Moisture Damage, MT Nov. 93, p497-509

Murugappan, K.
Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, with P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446

Nanni, Antonio
Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, with Nasser Meamarian, MT Feb. 93, p137-143

Natesaiyer, K.
Protected Paste Volume of Air-Entrained Cement Paste. Part II, with K. C. Hover and K. A. Snyder, MT May 93, p170-186

Newcomb, David E.
see Drescher, Andrew, MT Feb. 93, p112-128

Newtson, Craig M.
Effects of Aggregate Top Size on Bituminous Concrete, with John P. Turner, MT Nov. 93, p531-544

Noël, Denis
see Hechler, Jean-Jacques, MT Feb. 93, p53-61

Paramasivam, P.
see Murugappan, K., MT Nov. 93, p436-446

Paroli, R. M.
Ranking PVC Roofing Membranes Using Thermal Analysis, with O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95

Paul, Donald R.
see Rebeiz, Karim S., MT May 93, p237-248

Paul, E.
see Vipulanandan, C., MT Feb. 93, p62-82

Pellicane, Patrick J.
Plywood–Solid-Wood Nailed Joints Under Lateral Loading, MT May 93, p226-236

Pinon, Christian
see Hechler, Jean-Jacques, MT Feb. 93, p53-61

Pulsifer, John M.
see Sayed, Sayed M., MT Aug. 93, p321-338

Raftoyiannis, Ioannis G.
see Barbero, Ever J., MT Aug. 93, p339-355

Ramasamudra, Manjunatha
see Vallabhan, C. V. Girija, MT Feb. 92, p71-76

Rasheeduzzafar
see Al-Saadoun, S. S., MT Aug. 93, p356-371
see Hussain, S. Ehtesham, MT May 93, p155-169

Rebeiz, Karim S.
Recycling Plastics in Polymer Concrete for Construction Applications, with David W. Fowler and Donald R. Paul, MT May 93, p237-248

Roddis, W. Kim
see Attoh-Okine, Busby, (disc), MT Feb. 92, p58-70

Sayed, Sayed M.
Construction and Performance of Shoulders Using Unrap Base, with John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338

Schmitt, Roger C.
see Sayed, Sayed M., MT Aug. 93, p321-338

Senouci, Ahmed B.
see Eldin, Neil N., MT Nov. 93, p478-496

Show, Kuan-Yeow
see Tay, Joo-Hwa, MT Feb. 93, p19-29

Silva-Rodriguez, R.
see Larralde, J., MT Feb. 93, p30-40

Slattery, Kerry T.
see Hackett, Robert M., MT May 92, p196-211

Smith, Donald M.
Creep of Mass Concrete at Early Ages, with Michael I. Hammons, MT Aug. 93, p411-417

Snyder, K. A.
see Natesaiyer, K., MT May 93, p170-186

Stenman, H. K.
see Paroli, R. M., MT Feb. 93, p83-95

Tan, K. H.
see Murugappan, K., MT Nov. 93, p436-446

Tan, Seng C.
Failure Criteria for Fibrous Anisotropic Materials, with Shun Cheng, MT May 93, p198-211

Tarrer, Arthur R.
see Yoon, Hyon H., MT Feb. 93, p1-18

Tay, Joo-Hwa
Manufacture of Cement from Sewage Sludge, with Kuan-Yeow Show, MT Feb. 93, p19-29

Turner, John P.
see Newtson, Craig M., MT Nov. 93, p531-544

Vallabhan, C. V. Girija
Properties of PVB Interlayer Used in Laminated Glass, with Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76
disc: B. J. Love, MT Nov. 93, p546

Vipulanandan, C.
Characterization of Polyester Polymer and Polymer Concrete, with E. Paul, MT Feb. 93, p62-82
see Mebarkia, S., MT Feb. 92, p91-105

Wagh, Vinay P.
see Yoon, Hyon H., MT Feb. 93, p1-18

Weng, C. C.
Study on Residual Stress Relief of Welded Structural Steel Joints, with J. J. Chen, MT May 93, p265-279

Wheat, Dan L.
Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, with David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477

Williams, Bill
Recyclability of Moisture Damaged Flexible Pavements, with Serji N. Amirkhanian, MT Nov. 93, p510-530

Yoon, Hyon H.
Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, with Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18

SUBJECT INDEX

Absorption

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Influence of Surface Finish on Sorptivity on Concrete, W. J. McCarter, MT Feb. 93, p130-136.

Admixtures

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Age factors

Creep of Mass Concrete at Early Ages, Donald M. Smith and Michael I. Hammons, MT Aug. 93, p411-417.

Aggregate gradation

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Aggregates

Debonding Location in Asphalt Concrete Associated with Moisture Damage, El Hussein H. Mohamed, MT Nov. 93, p497-509.

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Aging

Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Air entrainment

Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Air pollution

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Anisotropic materials

Failure Criteria for Fibrous Anisotropic Materials, Seng C. Tan and Shun Cheng, MT May 93, p198-211.

Asphalt cement

Debonding Location in Asphalt Concrete Associated with Moisture Damage, El Hussein H. Mohamed, MT Nov. 93, p497-509.

Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Asphalt pavements

Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Asphalts

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Axial loads

Failure Criteria for Fibrous Anisotropic Materials, Seng C. Tan and Shun Cheng, MT May 93, p198-211.

Biaxial compression

Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, K. Murugappan, P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446.

Binders, materials

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Bonding strength

Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Buckling

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Buildings

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Cement paste

Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Cements

Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Manufacture of Cement from Sewage Sludge, Joo-Hwa Tay and Kuan-Yeow Show, MT Feb. 93, p19-29.

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Characteristics

Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Chlorides

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Chromatographic analysis

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Climatic changes

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Cold weather construction

Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Compaction

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Compaction equipment

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Composite beams

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Composite columns

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Composite materials

Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, K. Murugappan, P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446.

Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Predictions of Thermal Characteristics for Mixed Porous Media, Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195.

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Composite structures

Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Properties of PVB Interlayer Used in Laminated Glass, C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76.

Compression

Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Compressive strength

Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, K. Murugappan, P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446.

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Manufacture of Cement from Sewage Sludge, Joo-Hwa Tay and Kuan-Yeow Show, MT Feb. 93, p19-29.

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Computerized simulation

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Concrete

Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Creep of Mass Concrete at Early Ages, Donald M. Smith and Michael I. Hammons, MT Aug. 93, p411-417.

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, K. Murugappan, P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446.

Influence of Surface Finish on Sorptivity on Concrete, W. J. McCarter, MT Feb. 93, p130-136.

Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Concrete aggregates

Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Concrete blocks

Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Concrete durability

Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Concrete properties

Creep of Mass Concrete at Early Ages, Donald M. Smith and Michael I. Hammons, MT Aug. 93, p411-417.

Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Concrete, reinforced

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Concrete slabs

Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Consolidation

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Constitutive equations

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Construction

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Construction materials

Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Copper

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Corrosion

Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Corrosion resistance

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Coverings

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Creep

Creep of Mass Concrete at Early Ages, Donald M. Smith and Michael I. Hammons, MT Aug. 93, p411-417.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Curing

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Cyclic loads

Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Damage

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Deformation

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Degradation

Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Degradation failures

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Delaminating

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Density

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Deterioration

Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Drainage

Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Elastomer

Properties of PVB Interlayer Used in Laminated Glass, C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76.

Energy dissipation

Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Epoxy compounds

Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Failure load

Failure Criteria for Fibrous Anisotropic Materials, Seng C. Tan and Shun Cheng, MT May 93, p198-211.

Failures

Failure Criteria for Fibrous Anisotropic Materials, Seng C. Tan and Shun Cheng, MT May 93, p198-211.

Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Fatigue

Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Influence of Surface Finish on Sorptivity on Concrete, W. J. McCarter, MT Feb. 93, p130-136.

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Fiber composites

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Fiber laminates

Failure Criteria for Fibrous Anisotropic Materials, Seng C. Tan and Shun Cheng, MT May 93, p198-211.

Fiber reinforced materials

Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Fiber reinforced plastics

Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Finite differences

Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Finite element method

Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Finite elements

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Flexible pavements
Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Fly ash
Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Creep of Mass Concrete at Early Ages, Donald M. Smith and Michael I. Hammons, MT Aug. 93, p411-417.

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Fracture mechanics
Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. II. Application and Verification, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p394-410.

Fractures
Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Freeze-thaw cycle
Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Freezing
Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Frost penetration
Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Glass fibers
Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Glass plates
Properties of PVB Interlayer Used in Laminated Glass, C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76.

Heat transfer
Predictions of Thermal Characteristics for Mixed Porous Media, Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195.

Heat treatment
Study on Residual Stress Relief of Welded Structural Steel Joints, C. C. Weng and J. J. Chen, MT May 93, p265-279.

High strength concretes
Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Highways
Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Hollow sections
Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Humidity
Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Hydraulic pressure
Protected Paste Volume of Air-Entrained Cement Paste. Part II, K. Natesaiyer, K. C. Hover and K. A. Snyder, MT May 93, p170-186.

Incineration
Manufacture of Cement from Sewage Sludge, Joo-Hwa Tay and Kuan-Yeow Show, MT Feb. 93, p19-29.

Joints
Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.

Laboratory tests
Debonding Location in Asphalt Concrete Associated with Moisture Damage, El Hussein H. Mohamed, MT Nov. 93, p497-509.

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Lateral loads
Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.

Laterites
Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Masonry
Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Materials, properties
Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Properties of PVB Interlayer Used in Laminated Glass, C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76.

Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Materials testing

Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Mathematical models

Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Mechanical properties

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Membranes

Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Mixtures

Predictions of Thermal Characteristics for Mixed Porous Media, Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195.

Modeling

Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Models

Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Nonlocal Microplane Concrete Model with Rate Effect and Load Cycles. I: General Formulation, Toshiaki Hasegawa and Zdeněk P. Bažant, MT Aug. 93, p372-393.

Moisture content

Debonding Location in Asphalt Concrete Associated with Moisture Damage, El Hussein H. Mohamed, MT Nov. 93, p497-509.

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Monitoring

Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Mortars

Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Nails

Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.

Pavement deterioration

Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Percolation

Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Performance evaluation

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Permeability

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Phosphorus compounds

Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Physical properties

Manufacture of Cement from Sewage Sludge, Joo-Hwa Tay and Kuan-Yeow Show, MT Feb. 93, p19-29.

Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Plastics

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Poisson ratio

Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Polymer concretes

Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Polymers

Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Compressive Behavior of Glass-Fiber-Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Polyvinyl chloride

Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Porosity

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Influence of Surface Finish on Sorptivity on Concrete, W. J. McCarter, MT Feb. 93, p130-136.

Porous media

Predictions of Thermal Characteristics for Mixed Porous Media, Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195.

Portland cements

Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Probabilistic models

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Pull-out resistance

Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Pultrusion

Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Recycling

Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Reinforcing steels

Corrosion of Reinforcing Steel in Fly Ash Blended Cement Concrete, S. S. Al-Saadoun, Rasheeduzzafar and A. S. Al-Gahtani, MT Aug. 93, p356-371.

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Residual stress

Study on Residual Stress Relief of Welded Structural Steel Joints, C. C. Weng and J. J. Chen, MT May 93, p265-279.

Resilience

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Resins

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Resource recovery

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Road shoulders

Construction and Performance of Shoulders Using Unrap Base, Sayed M. Sayed, John M. Pulsifer and Roger C. Schmitt, MT Aug. 93, p321-338.

Roller compacted concrete

Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Roofs

Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Rubber

Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Service loads

Modeling Stiffness Degradation in Filamentary Composite Materials, Robert M. Hackett and Kerry T. Slattery, MT May 92, p196-211.

Shear tests

Properties of PVB Interlayer Used in Laminated Glass, C. V. Girija Vallabhan, Y. C. Das and Manjunatha Ramasamudra, MT Feb. 92, p71-76.

Silica

Influence of Microsilica on Protection from Chloride-Induced Corrosion of Reinforcing Steel, S. Ehtesham Hussain and Rasheeduzzafar, MT May 93, p155-169.

Size

Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Size effect

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Slip
Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Sludge
Manufacture of Cement from Sewage Sludge, Joo-Hwa Tay and Kuan-Yeow Show, MT Feb. 93, p19-29.

Sorption
Influence of Surface Finish on Sorptivity on Concrete, W. J. McCarter, MT Feb. 93, p130-136.

Spalling
Mathematics of Concrete Scaling, Dan F. Adkins, Gary P. Merkley and Gertrudys Brito, MT May 93, p280-288.

Steel
Corrosion Rates, Wetness, and Pollutants on Exterior of Building, Jean-Jacques Hechler, Jean Boulanger, Denis Noël and Christian Pinon, MT Feb. 93, p53-61.

Study on Residual Stress Relief of Welded Structural Steel Joints, C. C. Weng and J. J. Chen, MT May 93, p265-279.

Steel fibers
Failure Envelope for Steel-Fiber Concrete Under Biaxial Compression, K. Murugappan, P. Paramasivam and K. H. Tan, MT Nov. 93, p436-446.

Stiffness
Effects of Aggregate Top Size on Bituminous Concrete, Craig M. Newtson and John P. Turner, MT Nov. 93, p531-544.

Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.

Strain
Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Strain rate
Fatigue Behavior of High-Performance Concrete, Minh-Tan Do, Omar Chaallal and Pierre-Claude Aïtcin, MT Feb. 93, p96-111.

Strength
Compressive Behavior of Glass-Fiber–Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Factors Controlling Properties and Durability of Concretionary Laterite Gravel Aggregates, Enuvie G. Akpokodje and Peter P. Hudec, MT Feb. 92, p58-70.

Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.

Stripping
Debonding Location in Asphalt Concrete Associated with Moisture Damage, El Hussein H. Mohamed, MT Nov. 93, p497-509.

Recyclability of Moisture Damaged Flexible Pavements, Bill Williams and Serji N. Amirkhanian, MT Nov. 93, p510-530.

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Structural members
Local Buckling of FRP Beams and Columns, Ever J. Barbero and Ioannis G. Raftoyiannis, MT Aug. 93, p339-355.

Structure reinforcement
Bond and Slip of FRP Rebars in Concrete, J. Larralde and R. Silva-Rodriguez, MT Feb. 93, p30-40.

Temperature effects
Study on Residual Stress Relief of Welded Structural Steel Joints, C. C. Weng and J. J. Chen, MT May 93, p265-279.

Thermal and Fatigue Behavior of Polymer Concrete Overlaid Beams, Dan L. Wheat, David W. Fowler and Abdulaziz I. Al-Negheimish, MT Nov. 93, p460-477.

Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Tensile strength
Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Properties of Flowable High-Volume Fly Ash–Cement Composite, M. H. Maher and P. N. Balaguru, MT May 93, p212-225.

Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Relation of HP-GPC Profile with Mechanical Properties of AC Mixtures, Kwang W. Kim, James L. Burati, Jr. and Serji N. Amirkhanian, MT Nov. 93, p447-459.

Tension
Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Testing
Characterization of Polyester Polymer and Polymer Concrete, C. Vipulanandan and E. Paul, MT Feb. 93, p62-82.

Tests
Mechanics and Failure of Multilayer, Reinforced Membranes, G. Wayne Brodland and Eric F. P. Burnett, MT Aug. 93, p293-307.

Permanent Deformation in Asphalt Concrete, Andrew Drescher, Jong R. Kim and David E. Newcomb, MT Feb. 93, p112-128.

Thermal analysis
Ranking PVC Roofing Membranes Using Thermal Analysis, R. M. Paroli, O. Dutt, A. H. Delgado and H. K. Stenman, MT Feb. 93, p83-95.

Thermal factors
Thermal Degradation of Antistripping Agents and Enhanced Performance by Curing, Hyon H. Yoon, Arthur R. Tarrer and Vinay P. Wagh, MT Feb. 93, p1-18.

Thermal properties
Predictions of Thermal Characteristics for Mixed Porous Media, Yueying Deng, Clifford B. Fedler and James M. Gregory, MT May 92, p185-195.

Recycling Plastics in Polymer Concrete for Construction Applications, Karim S. Rebeiz, David W. Fowler and Donald R. Paul, MT May 93, p237-248.

Thermal resistance
Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Three-dimensional analysis
Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Tires
Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Toughness
Compressive Behavior of Glass-Fiber-Reinforced Polymer Concrete, S. Mebarkia and C. Vipulanandan, MT Feb. 92, p91-105.

Ultimate strength
Thermomechanical Properties of Epoxy Mortars, R. George Kelsey and Mrinmay Biswas, MT May 93, p187-197.

Vibration
Laboratory Consolidation Methods Applied to Compacted Concrete for Pavements, Antonio Nanni and Nasser Meamarian, MT Feb. 93, p137-143.

Viscosity
Use of GPC Chromatograms to Characterize Aged Asphalt Cements, Kwang W. Kim and James L. Burati, Jr., MT Feb. 93, p41-52.

Walls
Thermal Resistance of Masonry Walls—Analysis and Test Results, Rachel Becker, MT Aug. 93, p308-320.

Waste recycling
Investigation of Phosphate Mining Waste for Construction Materials, Nader Ghafoori and Wen F. Chang, MT May 93, p249-264.

Waste utilization
Rubber-Tire Particles as Concrete Aggregate, Neil N. Eldin and Ahmed B. Senouci, MT Nov. 93, p478-496.

Water flow
Dissolution of No-Fines Concrete Slab Due to Soft-Water Attack, Mark G. Alexander, MT Nov. 93, p427-435.

Welded joints
Study on Residual Stress Relief of Welded Structural Steel Joints, C. C. Weng and J. J. Chen, MT May 93, p265-279.

Wooden structures
Plywood–Solid-Wood Nailed Joints Under Lateral Loading, Patrick J. Pellicane, MT May 93, p226-236.